

CLAIMS:

1. A money validating machine comprising:

a money validation unit for validating money provided from outside; and

5 a detachable money storage unit for storing the money that has been determined as valid by said money validation unit;

wherein when said money validation unit is electrically connected to said money storage unit, said money validation  
10 unit supplies both electric power and a money information signal representing information on the money to be stored in said money storage unit to said money storage unit via two power-signal connections.

2. A money validating machine according to claim 1, wherein  
15 said money validation unit has two connection terminals and said money storage unit has two connection terminals so that said money validation unit are electrically connected to said money storage unit via the two power-signal connections.

3. A money validating machine according to claim 1, wherein:  
20 said money validation unit includes a validation side communication control unit for outputting the money information signal as a pulse signal and a power supply conversion unit for performing supply and stoppage of the electric power in accordance with the pulse signal to generate  
25 a voltage between the two power-signal connections; and

said money storage unit includes a power supply unit for supplying electric power based on the voltage between

the two power-signal connections to circuits within the money storage unit, a storage side receiving unit for extracting the money information signal from the voltage between the two power-signal connections, and a storage side communication control unit for receiving the extracted money information signal.

4. A money validating machine according to claim 3, wherein said power supply unit includes:

a first diode having a first terminal connected to one of the two power-signal connections;

a capacitor connected between a second terminal of said first diode and the other of the two power-signal connections;

a second diode having a first terminal connected to the second terminal of said first diode; and

a three-terminal regulator having an input terminal connected to a second terminal of said second diode.

5. A money validating machine according to claim 3, wherein said storage side receiving unit includes:

a photo-coupler having an LED (light emitting diode) for generating light inside said photo-coupler in accordance with an electric current caused by the voltage between the two power-signal connections and a phototransistor for accepting the generated light to flow an electric current corresponding to the accepted light; and

an impedance element for converting the electric current caused by said phototransistor into a voltage corresponding to the money information signal.

6. A money validating machine according to claim 3, wherein:

said money storage unit includes a lid to be opened when the money stored within said money storage unit is collected and a lid lock/unlock unit for locking or unlocking the lid  
5 by the electric power supplied from said power supply unit;  
and

said storage side communication control unit controls said lid lock/unlock unit to lock or unlock the lid in accordance with a control signal received by said storage  
10 side receiving unit via the two power-signal connections.

7. A money validating machine according to claim 3, wherein:

said money storage unit further includes a current lead-in unit for transmitting a signal by leading in a current via one of the two power-signal connections in accordance  
15 with a storage unit information signal generated by said storage side communication control unit; and

said money validation unit further includes a validation side receiving unit for detecting the signal transmitted from said current lead-in unit on the basis of an electric potential  
20 of said one of the two power-signal connections.

8. A money validating machine according to claim 3, wherein the money information signal generated by said validation side communication control unit is a signal encoded to RZ (return to zero) code format.

25 9. A money validating machine according to claim 8, wherein said validation side communication control unit includes validation side signal encoding means for encoding the money

information signal from NRZ (non return to zero) code format to the RZ code format before outputting the money information signal to said power supply conversion unit.

10. A money validating machine according to claim 8, wherein  
5 said storage side communication control unit includes storage side signal decoding means for decoding the money information signal outputted from said storage side receiving unit from the RZ code format to NRZ (non return to zero) code format.

11. A money validating machine according to claim 7, wherein  
10 said storage side communication control unit generates the storage unit information signal encoded to RZ (return to zero) code format.

12. A money validating machine according to claim 11, wherein  
15 said storage side communication control unit includes storage side signal encoding means for encoding the storage unit information signal from NRZ (non return to zero) code format to the RZ code format before outputting the storage unit information signal to said current lead-in unit.

13. A money validating machine according to claim 11, wherein  
20 said validation side communication control unit includes validation side signal decoding means for decoding the storage unit information signal inputted from said validation side receiving unit from the RZ code format to NRZ (non return to zero) code format.

25 14. A money validating machine according to claim 3, wherein said money storage unit includes a power polarity normalization unit for normalizing a polarity of the voltage

supplied from said money validation unit via the two power-signal connections.

15. A money validating machine according to claim 14, wherein said power polarity normalization unit includes a diode bridge circuit having first and second terminals supplied with the voltage between the two power-signal connections, a third terminal for outputting a positive potential according to the supplied voltage, and a fourth terminal for outputting a negative potential according to the supplied voltage.

10 16. A money validating machine according to claim 2, wherein said money storage unit is able to be connected to a collection device other than said money validation unit via said two connection terminals provided in said money storage unit when said money storage unit is detached from said money validation  
15 unit.